

JP09101520 A

LIQUID CRYSTAL BACK LIGHT DEVICE

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Application No. 07258753 JP07258753 JP, Filed 19951005,A1 Published 19970415

Abstract: PROBLEM TO BE SOLVED: To provide a back light device which makes a liquid crystal display face easy to see at a visual angle, which is wide in a certain degree, independently of the direction of sight while securing the quantity of light in the front of the back light device.

SOLUTION: This liquid crystal back light device which is arranged at the rear of liquid crystal to illuminate the liquid crystal is provided with a transparent light transmission plate 1, a light source 2 arranged in the vicinity of the side face of this light transmission plate, a plane light reflection plate 3 provided along the lower face of the light transmission plate, a transparent diffusing plate 4 which is provided along the upper face of the light transmission plate and has at least the upper face formed to a frosting surface, and a transparent plastic sheet 10 which is arranged along the upper face of the diffusing plate and is placed at the rear of the liquid crystal. The plastic sheet 10 has a structure face 12 from which light is emitted and a rear face 14 on the opposite side, and this structure face has quadrangular pyramids arranged in vertical and horizontal directions (X and Y directions) and has a smooth rear face.

Int'l Class: G02F0011335; F21V00800 G02B00600

Patents Citing this One: No US, EP, or WO patents/search reports have cited this patent.